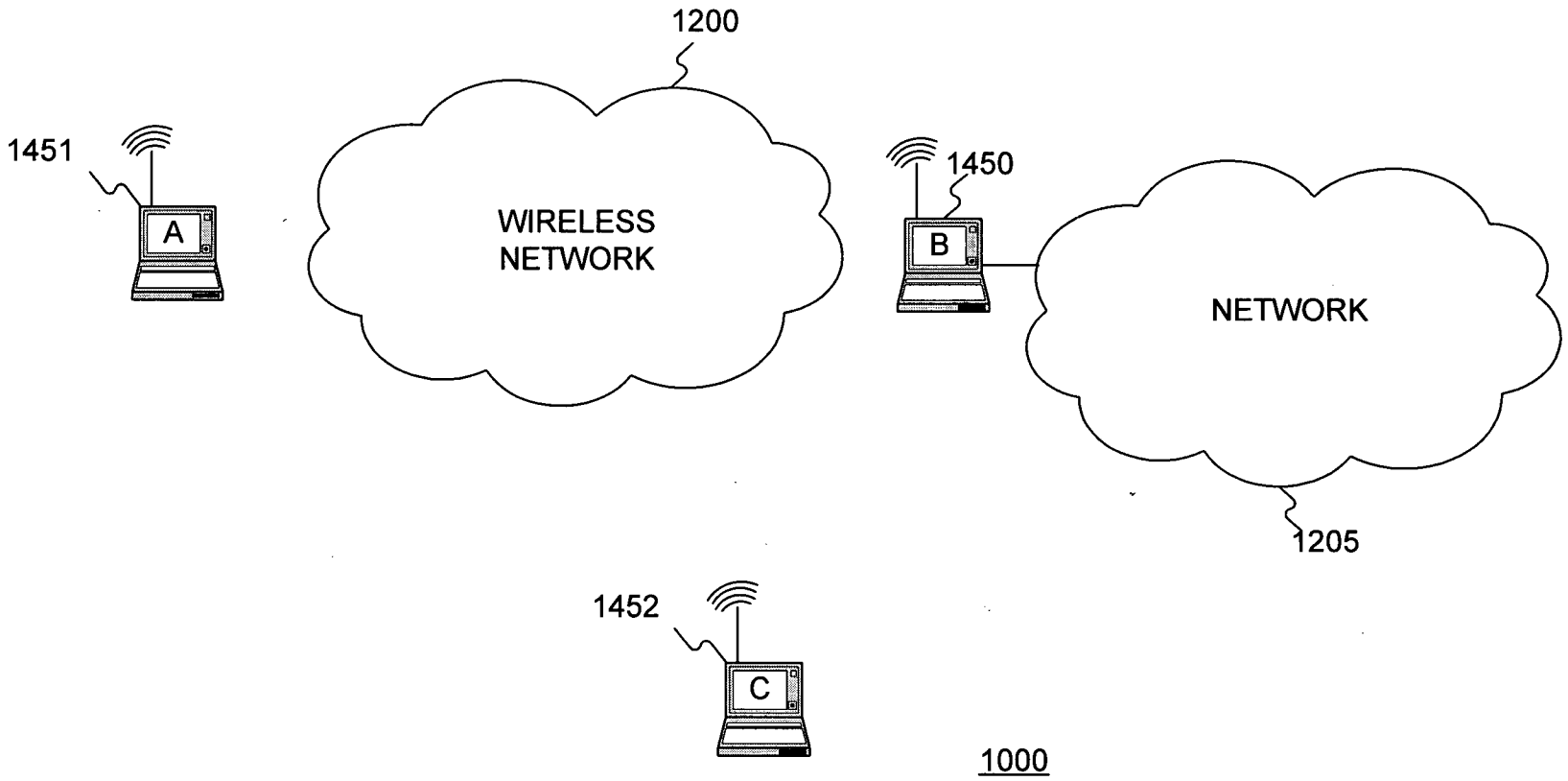

FIG. 1

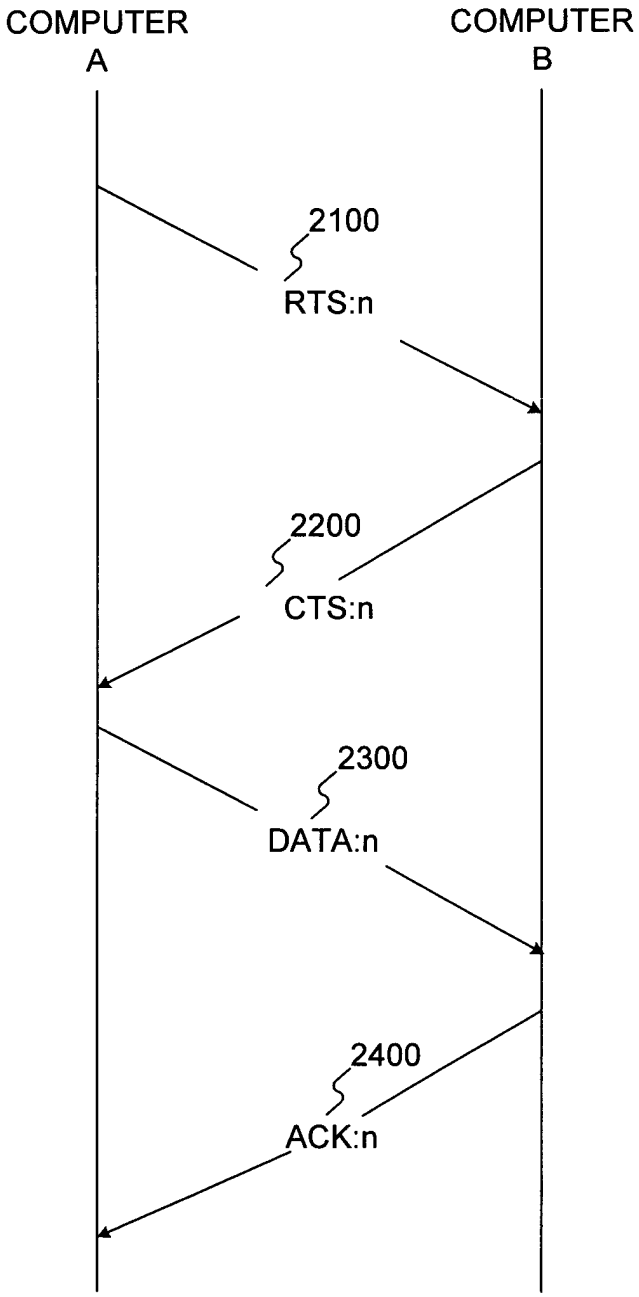
COMPUTER A
COMPUTER B
2100
RTS:n
2200
CTS:n
2300
DATA:n
2400
ACK:n

FIG. 2

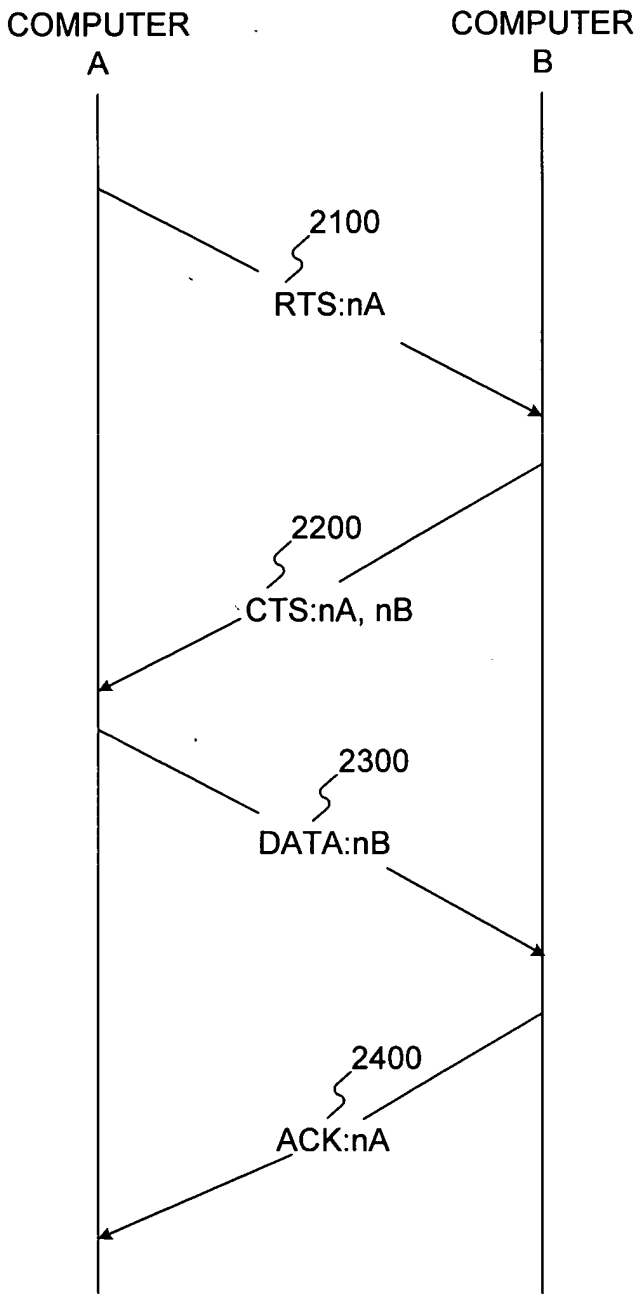
COMPUTER A
COMPUTER B
2100
RTS:nA
2200
CTS:nA, nB
2300
DATA:nB
2400
ACK:nA

FIG. 3

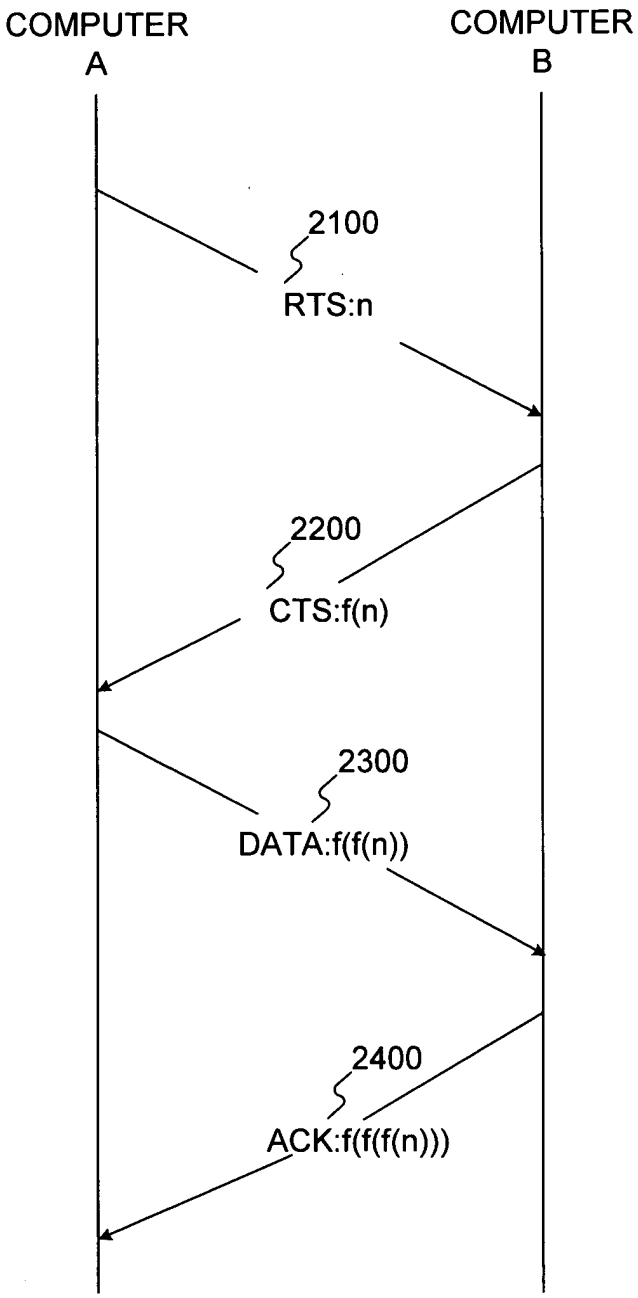
COMPUTER A
COMPUTER B
2100
RTS:n
2200
CTS:f(n)
2300
DATA:f(f(n))
2400
ACK:f(f(f(n)))

FIG. 4

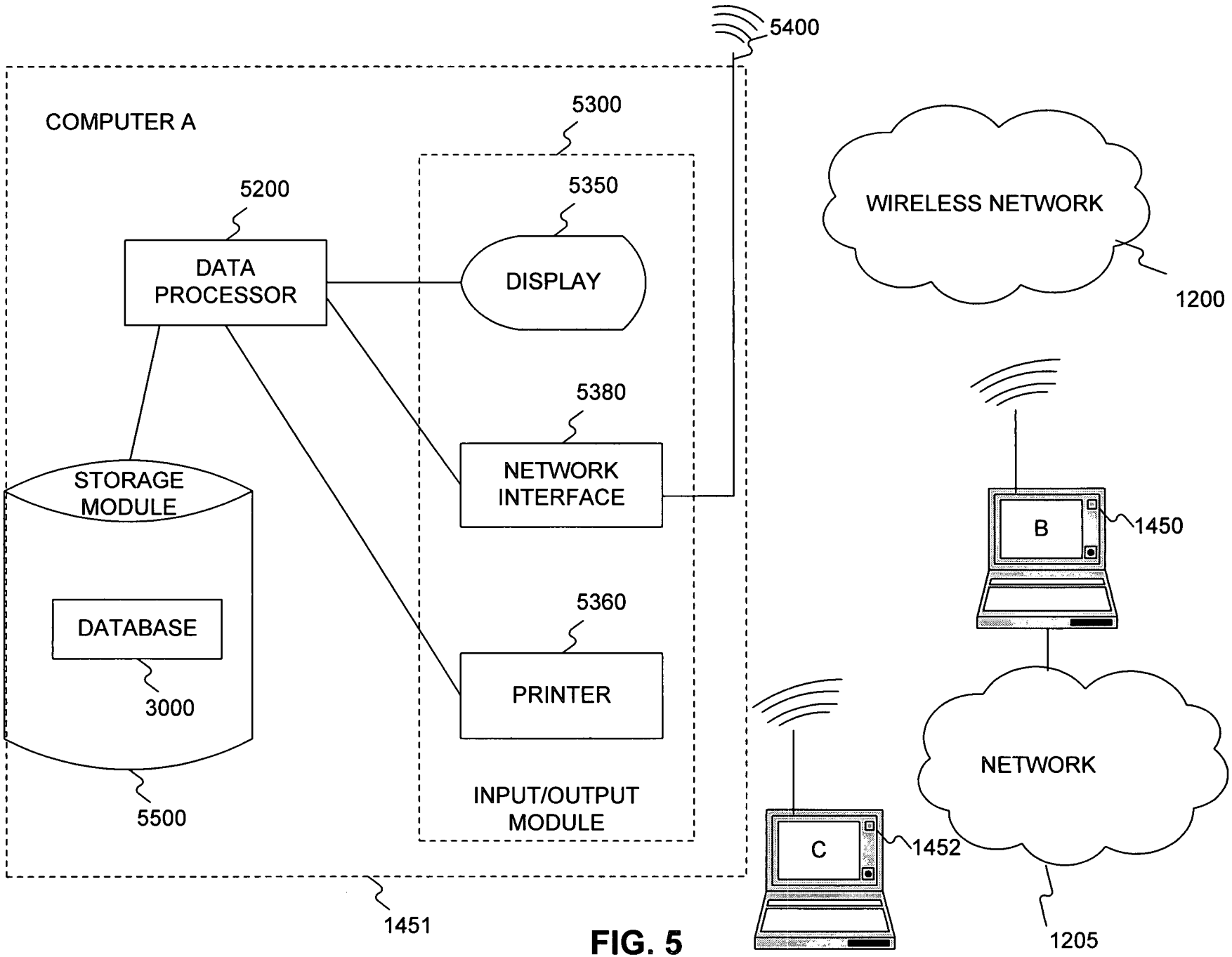
5400
COMPUTER A
5300
5200
5350
DATA PROCESSOR
DISPLAY
WIRELESS NETWORK
1200
5380
NETWORK INTERFACE
STORAGE MODULE
B
1450
DATABASE
3000
5360
PRINTER
INPUT/OUTPUT MODULE
NETWORK
C
1452
5500
1451
1205

FIG. 5

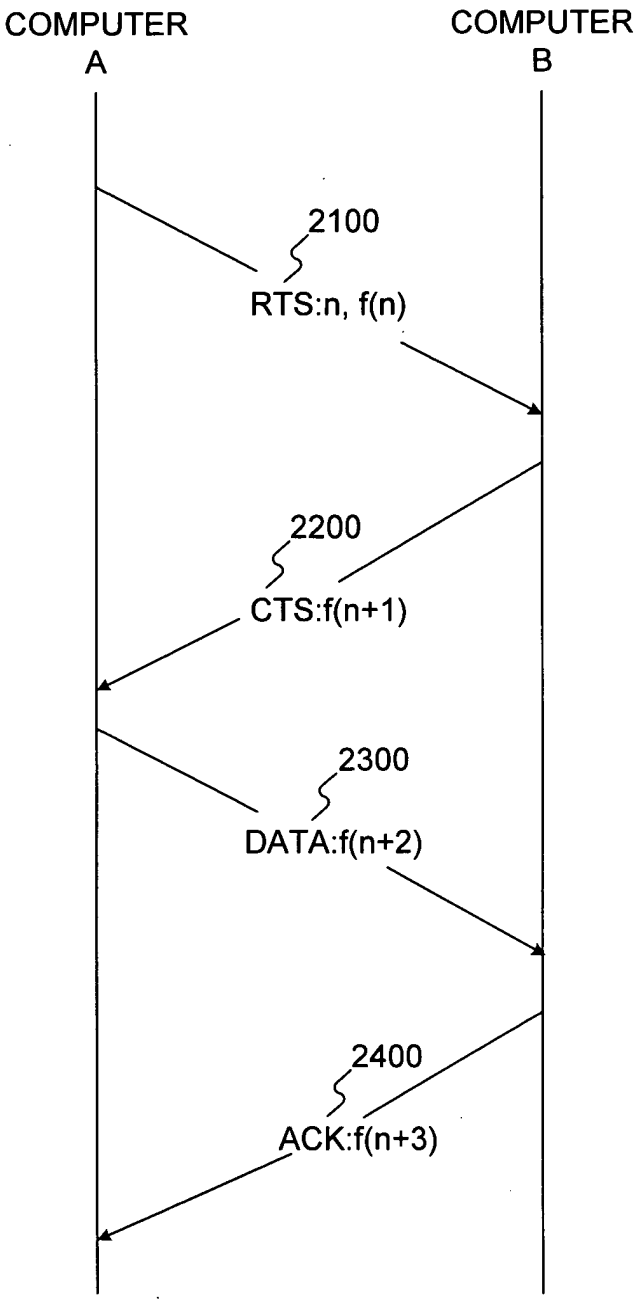
COMPUTER A
COMPUTER B
2100
RTS:n, f(n)
2200
CTS:f(n+1)
2300
DATA:f(n+2)
2400
ACK:f(n+3)

FIG. 6

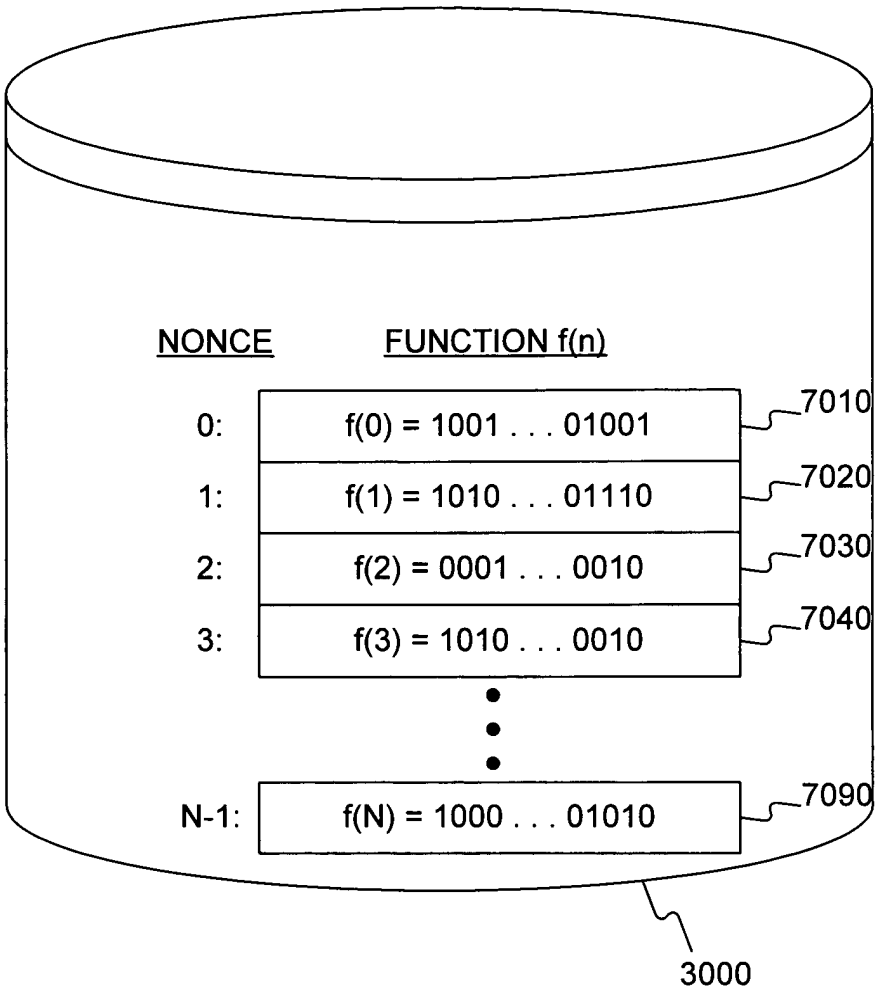
NONCE
FUNCTION f(n)
0:
f(0) = 1001 . . . 01001
1:
f(1) = 1010 . . . 01110
2:
f(2) = 0001 . . . 0010
3:
f(3) = 1010 . . . 0010
N-1:
f(N) = 1000 . . . 01010
7010
7020
7030
7040
7090
3000

FIG. 7

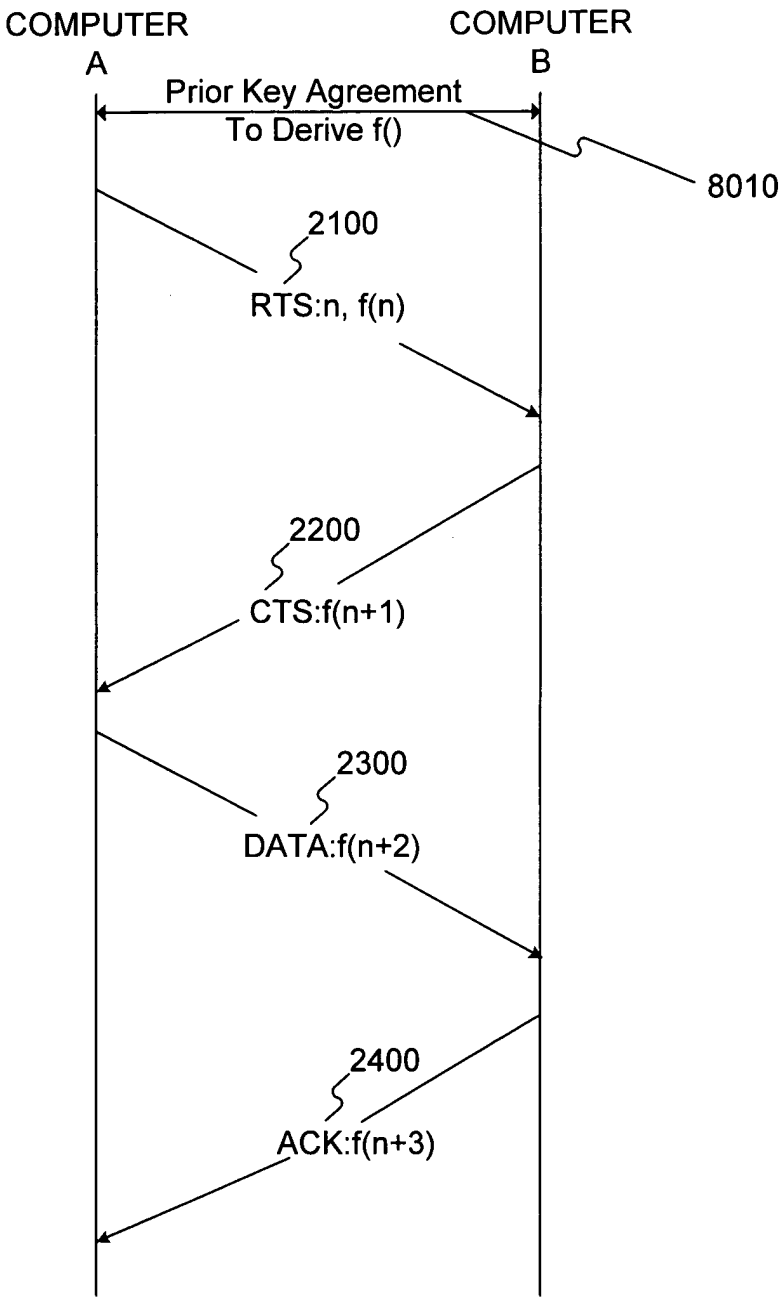
COMPUTER A
COMPUTER B
Prior Key Agreement To Derive f()
8010
2100
RTS:n, f(n)
2200
CTS:f(n+1)
2300
DATA:f(n+2)
2400
ACK:f(n+3)

FIG. 8

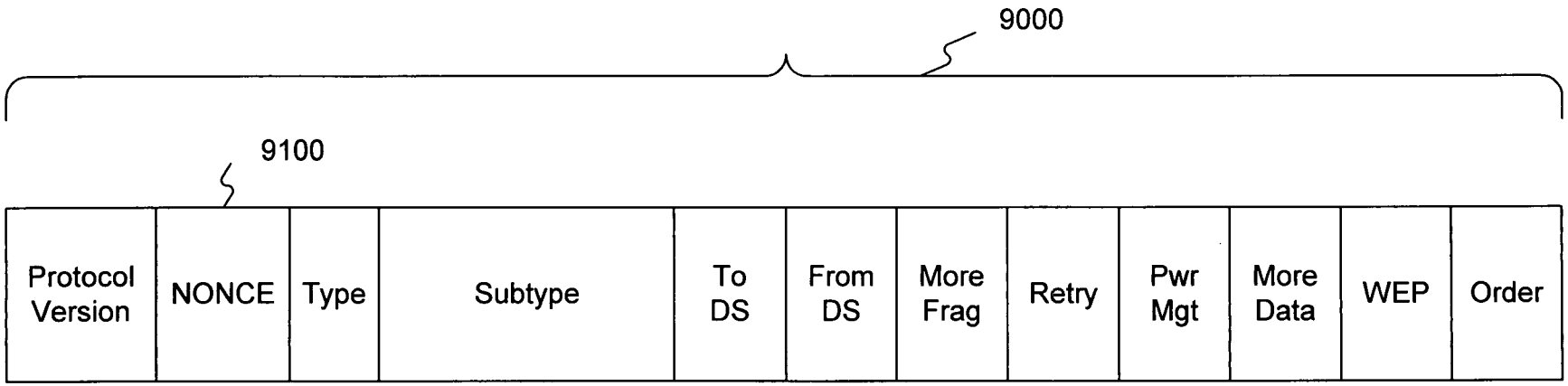
9000
9100
Protocol Version
NONCE
Type
Subtype
To DS
From DS
More Frag
Retry
Pwr Mgt
More Data
WEP
Order

FIG. 9

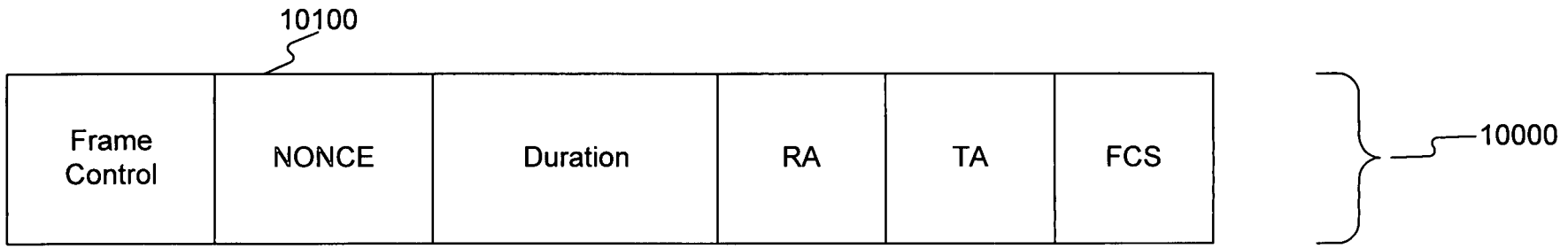

FIG. 10

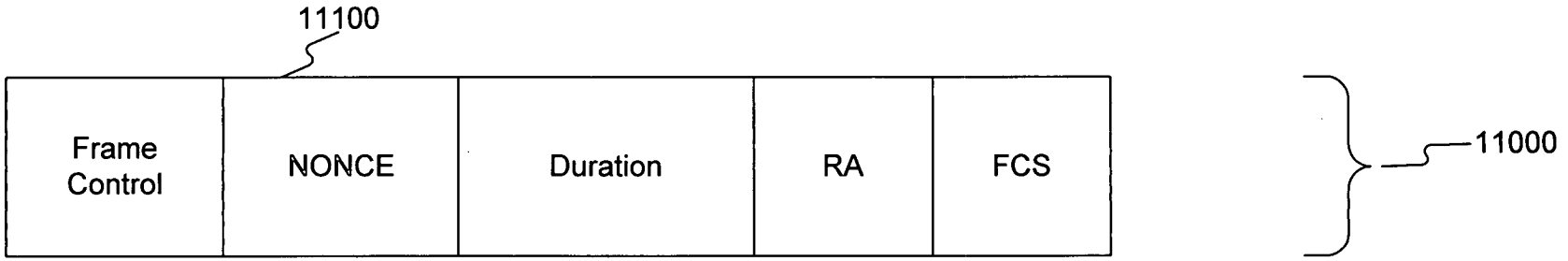

FIG. 11

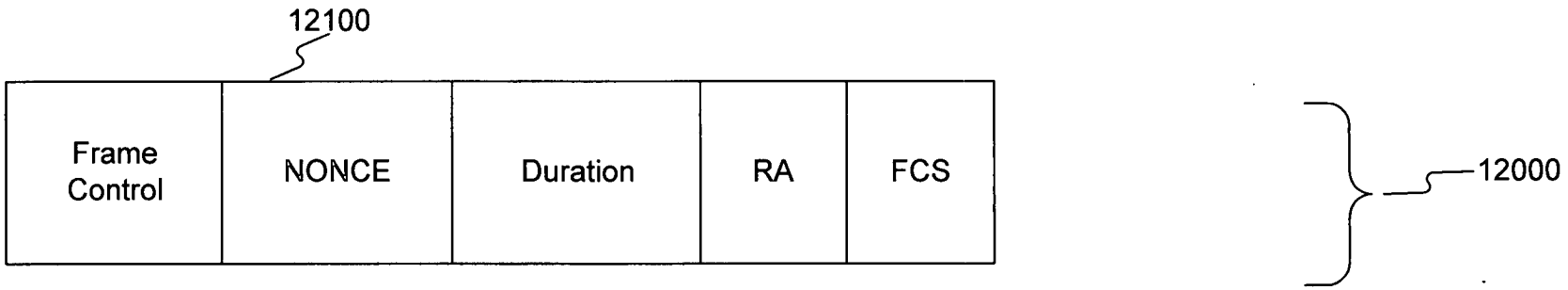

FIG. 12

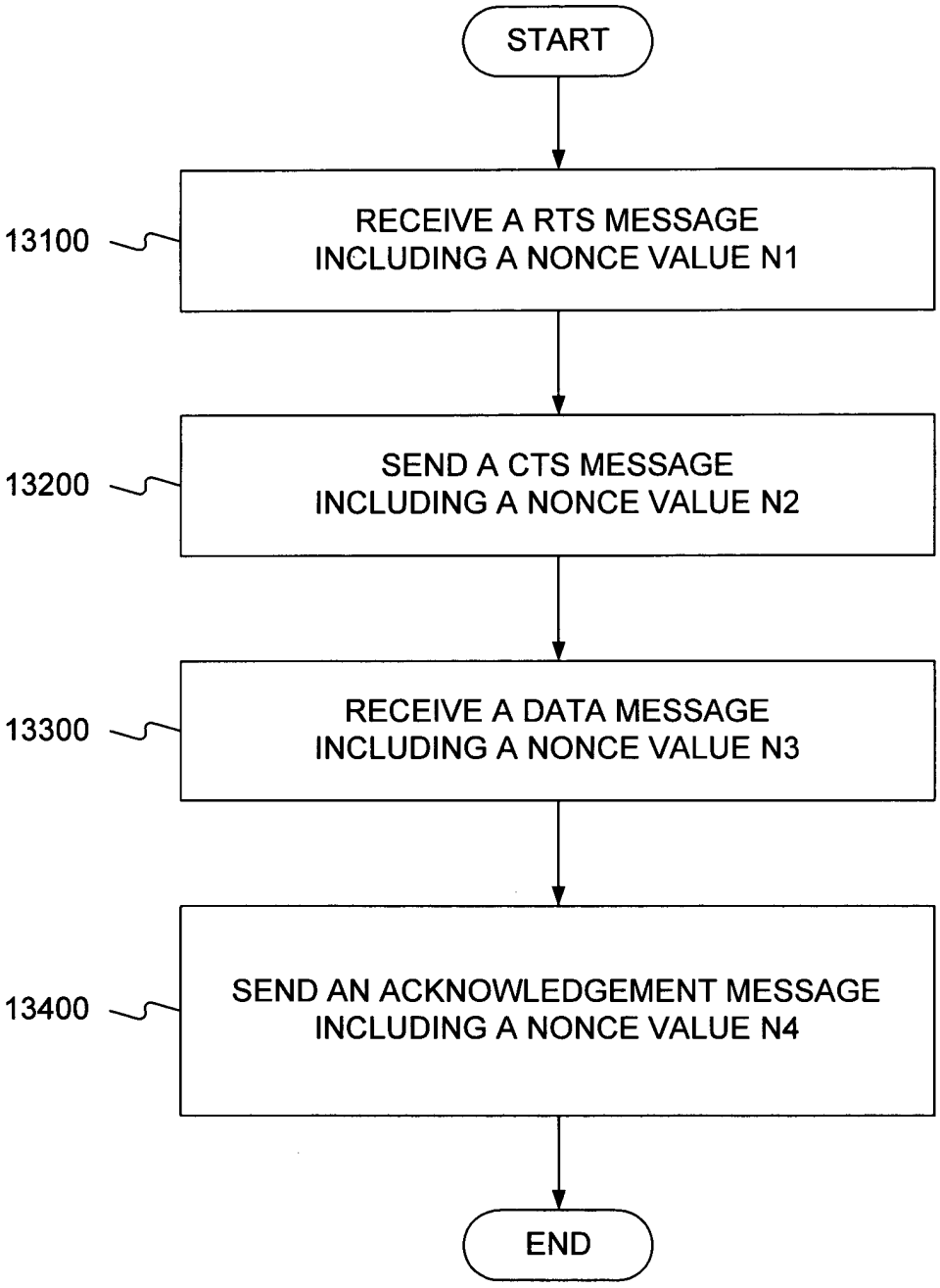
START
13100
RECEIVE A RTS MESSAGE
INCLUDING A NONCE VALUE N1
13200
SEND A CTS MESSAGE
INCLUDING A NONCE VALUE N2
13300
RECEIVE A DATA MESSAGE
INCLUDING A NONCE VALUE N3
13400
SEND AN ACKNOWLEDGEMENT MESSAGE
INCLUDING A NONCE VALUE N4
END

FIG. 13

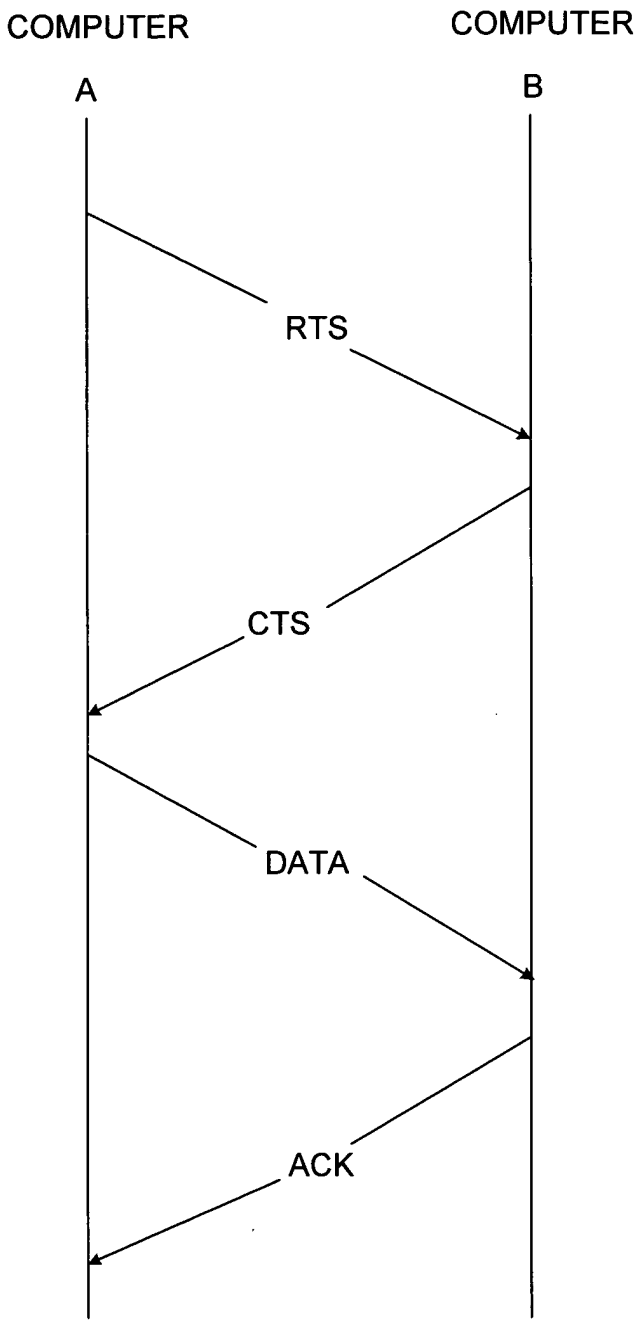

FIG. 14